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$$\begin{aligned}
 x + y &= 62 \quad (1) & x &= \text{Amber's age} \\
 y &= 2(x+1) \quad (2) & y &= \text{Mom's age} \\
 y &= 2x+2 \quad (2)
 \end{aligned}$$

$$\begin{aligned}
 x + 2x+2 &= 62 \quad (1) \\
 3x+2 &= 62 \\
 3x &= 60 \\
 x &= 20
 \end{aligned}$$

$$\begin{aligned}
 x + y &= 62 \\
 20 + y &= 62 \\
 y &= 62 - 20 \\
 y &= 42
 \end{aligned}$$

$$\begin{aligned}
 (20, 42) \\
 x \quad y
 \end{aligned}$$

Verify

$$\begin{aligned}
 y &= 2(x+1) \\
 42 &= 2(20+1) \\
 42 &= 2(21) \\
 42 &= 42 \\
 LS &= RS
 \end{aligned}$$

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More Examples:

$$\begin{array}{lll}
 y = x+1 & -3x - y - 4 = 0 & 2x - 3y = 1 \\
 y = -2x+4 & 5x + 6y = -11 & x = y+1
 \end{array}$$

Homework

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3, 5abd, 8, 9abd,
10, 15, 16

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